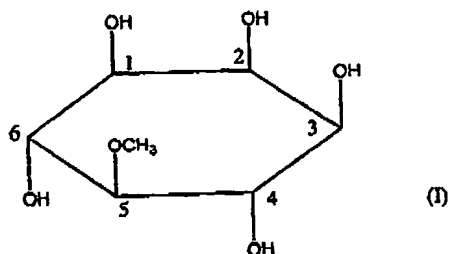
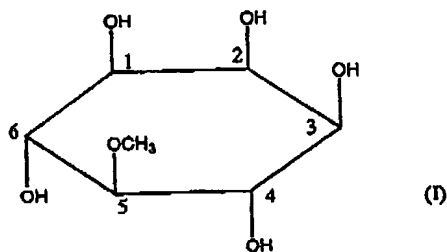


What is claimed is:

1. A natural compound having antidiabetic effect extracted from *Taxus species*, characterized in that it is 5-O-methyl-*myo*-inositol having the formula I:



2. A process for extracting a natural compound having antidiabetic effect extracted from *Taxus spp*, said process comprising: extracting *Taxus spp* with an organic solvent to obtain an extractum, subjecting the extractum to a diphase extraction and a chromatography, collecting fractions containing *myo*-inositol derivative, then concentrating, crystallizing, and filtrating to obtain a powder, recrystallizing the powder to obtain a natural compound of 5-O-methyl-*myo*-inositol having the formula I:



3. A method according to claim 2, characterized in that said *Taxus spp* is *Taxus yunnanensis* Cheng et L. K. Fu, or *Taxus chinensis* var. *mairei* (Lemee et Levi) Cheng et L. K. Fu.

4. A method according to claim 2, characterized in that the organic solvent used for extraction comprises ethanol, methanol, acetone, and aqueous mixtures thereof.
5. A method according to claim 2, characterized in that the solvent used for diphase extraction is a water insoluble organic solvent.
6. A method according to claim 5, characterized in that the organic solvent is ethyl acetate, chloroform, dichloromethane, ethyl ether.
7. A method according to claim 2, characterized in that the chromatography is a macroporous resin column, glucose G or modified glucose column, cellulose column, or activated carbon column.
8. A method according to claim 2, characterized in that the solvent system used for recrystallization is a solvent system comprising ethanol, methanol, acetone, methylethylketone, or a mixture thereof.
9. A pharmaceutical composition for treatment diabetes, characterized in that the pharmaceutical composition comprises a natural compound according to claim 1 admixed with one or more adjuvants and/or excipients.
10. A pharmaceutical composition according to claim 9, characterized in that the pharmaceutical composition can form pharmaceutical dosage forms, such as injection, capsule, tablet, granule, sugar-coated pill, solution, etc.
11. Use of a natural compound according to claim 1 in the manufacture of a

medicament for treatment and prevention of diabetes.

12. Use according to claim 11, characterized in that said medicament is able to significantly alleviate hyperglycemia of diabetes, inhibit the decomposition of hepatic glycogen and the absorption of glucose, reduce blood fat level, improve the metabolism of free radicals, and protect  $\beta$  cells of pancreatic island; and has a very low toxicity.

13. Use according to claim 11, characterized in that said medicament can be used for prevention and treatment of diabetes and complications in terms of diabetic cardioangiopathy and other glycometabolic disorder-associated diseases, and for improvement of the metabolism of free radicals.

14. Use according to claim 11, characterized in that said medicament can be used for prevention and treatment of type-II diabetes and complications in terms of diabetic cardioangiopathy.